

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

| Applicants: Application No.: Date Filed: Title: | | Pan, Jianhua | Group Art Uni Examiner: | it: | | | | |
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| | | 11/20/03 METHOD AND . CONTROL | METHOD AND APPARATUS FOR ADAPTIVE ECHO AND NOISE | | | | | |
| | | INFORMATIO | ON DISCLOSURE STATEM | AFNT (IDS) | | | | |
| | ssioner Fo | | N DISCLOSURE STATES | MENT (IDS) | | | | |
| | ulia, vii | 22313-1430 | | | | | | |
| | n attache | | Nor subsequently identified here | C.F.R. §§1.97 and 1.98, the references ein, are being submitted herewith for | | | | |
| I. | COPIES a.⊠ b.□ | A legible copy of (i) ea caused it to be listed; an is included herewith. Any patents, publicatio enclosed herewith were | legible copy of (i) each U.S. and foreign patents; (ii) each publication or that portion which used it to be listed; and (iii) all other information or that portion which caused it to be listed, included herewith. If y patents, publications or other information which are listed on PTO/SB/08 which are not closed herewith were previously cited by or submitted to the PTO in one of the following polications which has been relied upon for an earlier filing date under 35 U.S.C. § 120: | | | | | |
| | | U.S. Serial Number | | U.S. Filing Date | | | | |
| II. | CONCI. a. b. c. | information are in the English language (concise explanation not required). A concise explanation of the relevance of all patents, publications or other information lis that is not in the English language is as follows: | | | | | | |
| III. 🗆 | CROSS REFERENCE TO RELATED APPLICATION(S) The Examiner is advised that the following co-pending application(s) contain(s) subject matter that may be related to the present application. By bringing this (these) applications to the Examiner's attention Applicant(s) does(do) not waive the confidentiality provisions of 35 U.S.C. §122. | | | | | | | |
| | Serial N | <u>o.</u> | Filing Date | Art Unit | | | | |
| | | | <u>FEES</u> | | | | | |
| IV. 🛛 | THIS II a.⊠ | prosecution application under § 1.53(d) (37 C.F.R. §1.97(b)(1)). No fee or statement is | | | | | | |
| | b. 🗌 | international application | n (37 C.F.R. §1.97(b)(2)). No fee | | | | | |
| | c. | or statement is required | | nerits (37 C.F.R. §1.97(b)(3)). No fee | | | | |
| | d. | | e of a first Office Action after 114 (37 C.F.R. § 1.97(b)(4)). No | the filing of a request for continued fee or statement is required. | | | | |

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| V. 🗌 | before t | he mailin 7 C.F.R.)). No state §1.17(p | §1.311, or an action that otherwisement; therefore, charge Deposit | ction under 37 C.F.R. §1.113, a Nee closes prosecution in the applica Account 502117 the fee set forth in | tion (See 37 C.F.R. | |
|---|------------------------|--|--|---|---|--|
| VI. | | efore payi a statem | ING FILED UNDER 37 C.F.R. § ment of the issue fee and is acconnent under 37 C.F.R. §1.97(e) as proposit Account 502117 the peti | npanied by the following: provided below; and | | |
| VII. | | lersigned each ite Patent C of IDS; no item Patent C statement known t filing of some of foreign informa a counte to the r | Office in a counterpart foreign apport of information contained in the Office in a counterpart foreign apport after making reasonable inquite to any individual designated in 3 fithis statement, or fithe items of information contained Patent Office. As to this infection contained in the IDS was cite expart foreign application not more maining information, the under | ne IDS was cited in a communicate plication not more than three months are IDS was cited in a communicate plication, and to knowledge of the ry, no item of information contains 7 C.F.R. 1.56(c) more than three in the IDS were cited in a comportation, the undersigned states and in a communication from a force than three months prior to the filterigned hereby states that no item | ion from a foreign person signing the led in the IDS was months prior to the munication from a that each item of ign Patent Office in ing of this IDS. As a of this remaining | |
| VIII. | <u>PAYMI</u> □ □ | a counte making individu statemen ENT OF I A check Please c fee(s). If Appli | erpart foreign application or, to the reasonable inquiry, no item of all designated in 37 C.F.R. 1.56 nt. FEES In the amount of is encharge Deposit Account 502117 in a cant has overlooked any addition | ed in a communication from a foreign technowledge of the person signing information contained in the IDS (c) more than three months prior to closed for the above-identified feet in the amount of \$180.00 for the about al fees, or if any overpayment has bedit or debit Deposit Account 5021 | the statement after was known to any to the filing of this (s). (s). ove-indicated open made, the | |
| | e statuto | Two Co ove refere ory prior | pies of this paper are attached for nces are being cited only in the in | Deposit Account charges and debinterests of candor and without any ipates the invention or which wou | its. admission that they | |
| | etermine | d that thi | is IDS has been filed under the v | s IDS, he/she is requested to conta yrong rule, the PTO is requested to ge the appropriate fee to Deposit A | consider this IDS | |
| | | | | Respectfully submitted, Pan, Jianhua Matthew C. Loppnow | po p 3 | |
| MOTOROLA, INC. Customer Number 20280 | | | | Attorney for Applicant(s) Reg. No. 45,314 Tel. 847-523-2585 | | |
| Enclosu | res: | | PTO/SB/08 References Foreign Search Report | 161. 047-323-2303 | | |

PTO/SB/08A (04-03) Substitute for form 1449A/PTO Complete if Known Application Number INFORMATION DISCLOSURE Filing Date 11/20/03 First Named Inventor Pan, Jianhua STATEMENT BY APPLICANT Group Art Unit Examiner Name (use as many sheets as necessary) Sheet Attomey Docket Number CS23552RL **U. S. PATENT DOCUMENTS** Pages, Columns, Lines, Where Relevant Cite No. 1 **Document Number Publication Date** Name of Patentee or Applicant Examiner Initials* Number -Kind Code² (if known) MM-DD-YYYY of Cited Document Passages or Relevant Figures Appear US - 5,687,075 11-11-1997 Stothers US - 5,691,893 11-25-1997 Stothers US - 5,768,124 06-16-1998 Stothers et al. **FOREIGN PATENT DOCUMENTS** Foreign Patent Document Publication Date Name of Patentee or Pages, Columns, Lines, Τß Cite No. 1 Examine Where Relevant Passages or MM-DD-YYYY Applicant of Cited Document Country Code3 Number 4 Kind Code2 (if Relevant Figures Appear Initials* known)

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| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | | | | Application Number | | |
| | | | | Filing Date | 11/20/03 | |
| | | | | First Named Inventor | Pan, Jianhua | |
| ואוט | LINEITI DI | AI I LIOAN | • | Group Art Unit | | |
| (use as many sheets as necessary) | | | | Examiner Name | | |
| Sheet | 2 | of | 2 | Attorney Docket Number | CS23552RL | |

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|---------------------------------|------------|---|----|--|--|
| Examiner Initials* | Cite No. 1 | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T2 | | |
| | * | REGINE LE BOUQUIN JEANNES, PASCAL SCALART, GERARD FAUCON AND CHRISTOPHE BEAUGEANT, "Combined Noise and Echo Reduction in Hands-Free Systems: A Survey", IEEE Transactions on Speech and Audio Processing, Vol. 9, No. 8, November 2001, 13 pages | | | |
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